

May 2004

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Program Web Site at
<http://tis.eh.doe.gov/techstds/>

Standards

Actions



DOE Technical Standards Program Document Status 04-27-2004

Activity Summary

In Conversion – 4
In Preparation – 30
Out for Comment – 20
Published in March – 2



5-Year Review Status

Revision in Progress – 15
Reaffirmation in Progress – 25
Cancellation Pending – 1
Cancellation in Progress – 3

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DOE Standards Actions

1.0 DOE Technical Standards Projects

The complete list of all DOE Technical Standards projects and their status is available on the Technical Standards Program TSP web page at <http://tis.eh.doe.gov/techstds/>. To access these standards, go to our web page, click on "DOE Technical Standards", then choose Projects, Approved Standards, Recently Approved Standards, or Drafts for Review, as appropriate, on the left frame of the page.

1.1 DOE Technical Standards Recently Sent for Coordination

Your Technical Standards Manager (TSM) will initiate requests for specific reviewers to comment on these drafts. The full text of these documents is available on the Web Site. If you wish to comment on these drafts, please notify your TSM. The list of TSMs can be found at <http://tis.eh.doe.gov/techstds/genframe.html>.

- *Chemical Process Hazards Analysis*, DOE-HDBK-1100-96 (revision), Project Number SAFT-0096, contact Billy Lee, U.S. DOE, EH-52, phone 301-903-4884, fax 301-903-7773 and e-mail billy.lee@eh.doe.gov. Comment due by June 1, 2004
- *Process Safety Management for Highly Hazardous Chemicals*, DOE-HDBK-1101-96 (revision), Project Number SAFT-0097, contact Billy Lee, U.S. DOE, EH-52, phone 301-903-4884, fax 301-903-7773 and e-mail billy.lee@eh.doe.gov. Comment due by June 1, 2004

1.2 DOE Technical Standards Recently Published

The following DOE Technical Standards were recently published and posted on the TSP Web site:

- *Facility Maintenance Management Functional Area Qualification Standard*, DOE-STD-1181-2004, March 2004
- *Civil/Structural Engineering Functional Area Qualification Standard*, DOE-STD-1182-2004, March 2004

1.3 DOE Technical Standards Reaffirmed

General Employee Radiological Training (GERT), DOE-HDBK-1131-98

A final memorandum of April 1, 2004, announced the conclusion of the reaffirmation process, begun with a notice to the Technical Standards Managers (TSMs) on January 15, 2004.

Non-Government Standards Actions

Readers to Note

We will be changing the format of the Non-Government portion of the "Standards Actions" effective with the next month's Issue (June, 2004). Rather than listing standards available for comments and newly published standards, we will provide links to the standards organizations' web pages to enable readers get up-to-date information. This change will improve our efficiency without any adverse impact on the quality of information provided to our readers. The change, proposed by the DOE's Technical Standards Program Staff was unanimously approved by Technical Standards Managers.

2.0 Non-Government Standards

2.1 American National Standards Institute

American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Recent electronic copies are available on the ANSI Web Site at http://www.ansi.org/news_publications/periodicals/standards_action/standards_action.aspx?menuid=7.

The following listings are extracted from *ANSI standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

2.1.1 American National Standards

The following lists new or revised American National Standards and American National Standards in coordination. For Standards in coordination, the comment due dates are noted before each set.

Comment Deadline: May 31, 2004

ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

Revisions

- BSR/ASHRAE 64-200x, Methods of Laboratory Testing Remote Mechanical-Draft Evaporative Refrigerant
- BSR/ASHRAE 72-200x, Method of Testing Open and Closed Commercial Refrigerators and Freezers (revision and consolidation of ANSI/ASHRAE 72-1998 and ANSI/ASHRAE 117-2002)

Supplements

- BSR/ASHRAE 135b-200x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (supplement to ANSI/ASHRAE 135-2004)

- BSR/ASHRAE 135a-200x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (supplement to ANSI/ASHRAE 135-2004)

ASME (American Society of Mechanical Engineers)

Revisions

BSR/ASME A17.2-200x, Guide for Inspection of Elevators, Escalators, and Moving Walks (revision of ANSI/ASME A17.2-2001)

ITI (INCITS)

Supplements

BSR INCITS 361-2002 Erratum 200x, Erratum to INCITS 361:2002, Information Technology - AT Attachment with Packet Interface - 6 (ATA/ATAPI-6) (supplement to ANSI INCITS 361-2002)

NPES (ASC CGATS) (Association for Suppliers of Printing, Publishing and Converting Technologies)

New National Adoptions

BSR CGATS ISO 12646-200x, Graphic technology - Displays for colour proofing - Characteristics and viewing conditions (identical national adoption)

UL (Underwriters Laboratories, Inc.)

New National Adoptions

BSR/UL 61965-200x, Standard for Mechanical Safety for Cathode Ray Tubes (identical national adoption and revision of ANSI/UL 61965-2002)

Revision

- BSR/UL 25-200x, Meters for Flammable and Combustible Liquids and LP-Gas (Standard dated 1/24/03) (revision of ANSI/UL 25-1997)
- BSR/UL 30-200x, Standard for Metal Safety Cans (revision of ANSI/UL 30-1999)
- BSR/UL 32-200x, Standard for Metal Waste Cans (revision of ANSI/UL 32-1999)
- BSR/UL 305-200x, Panic Hardware (Standard dated 1/31/97) (revision of ANSI/UL 305-2001)
- BSR/UL 859-200x, Household Electric Personal Grooming Appliances (bulletin dated April 5, 2004) (revision of ANSI/UL 859-2002)

Comment Deadline: June 15, 2004

ASME (American Society of Mechanical Engineers)

New Standard

- BSR/ASME A112.19.16M-200x, Terrazzo Plumbing Fixtures (new standard)
- BSR/ASME PTC 6.2-200x, Steam Turbines in Combined Cycles (new standard)

Revision

- BSR/ASME A112.3.1-200x, Stainless Steel Drainage Systems for Sanitary, Storm and Chemical Application, Above and In-Ground (revision of ANSI/ASME A112.3.1-1993)

Continued on next page

- BSR/ASME Y14.100-200x, Engineering Drawing Practices (revision of ANSI/ASME Y14.100-2000)

CSA (ASC Z21/83) (CSA America, Inc.)

Revisions

- BSR/Z83.8b-200x, Gas Unit Heaters and Gas-Fired Duct Furnaces (revision of ANSI Z83.8-2002/CSA 2.6-2002 and Z83.8a-2003/CSA 2.6a-2003)
- BSR Z21.10.1-200x, Gas Water Heaters, Volume I, Storage Water Heaters With Input Ratings of 75,000 Btu Per Hour or Less (same as CSA 4.1) (revision of ANSI Z21.10.1-2001/CSA 4.1-2001, Z21.10.1a-2002/CSA 4.1a-2002 and Z21.10.1b-2004/CSA 4.1b-2004)
- BSR Z21.10.3-200x, Gas Water Heaters, Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu Per Hour, Circulating and Instantaneous (Same as CSA 4.3) (revision, redesignation and consolidation of ANSI Z21.10.3-2001/CSA 4.3-2001, Z21.10.3a-2003/CSA 4.3a-2003 and Z21.10.3b-2004/CSA 4.3b-2004)
- BSR Z21.13-200x, Gas-Fired Low Pressure Steam and Hot Water Boilers (same as CSA 4.9) (revision, redesignation and consolidation of ANSI Z21.13-2000, ANSI Z21.13a-2002, ANSI Z21.13b-2003)
- BSR Z21.56b-200x, Gas-Fired Pool Heaters (same as CSA 4.7b) (revision of ANSI Z21.56-2001/CSA 4.7-2001 and Z21.56a-2004/CSA 4.7a-2004)
- BSR Z83.4a-200x, Non-Recirculating Direct Gas-Fired Industrial Air Heaters (same as CSA 3.7a) (revision of ANSI Z83.4-2003)
- BSR Z83.18-200x, Recirculating Direct Gas-Fired Industrial Air Heaters (revision of ANSI Z83.18-2000, Z83.18a-2001 and Z83.18b-2003)

NEMA (ASC C136) (National Electrical Manufacturers Association)

New Standard

BSR C136.14-200x, Roadway and Area Lighting Equipment - Elliptically Shaped, Enclosed Side-mounted Luminaires for Horizontal-burning High-intensity Discharge Lamps

Revisions

- BSR C136.6-200x, Roadway and Area Lighting Equipment - Metal Heads and Reflector Assemblies - Mechanical and Optical Interchangeability (revision of ANSI C136.6-1996)
- BSR C136.12-200x, Roadway and Area Lighting Equipment - Mercury Lamps - Guide for Selection (revision of ANSI C136.12-1995)

SJI (Steel Joist Institute)

Revisions

- BSR/SJI JG-1.0-200x, Specification for Joist Girders (revision of ANSI/SJI JG-1.0-2001)
- BSR/SJI K-1.0-200x, Specification for Open Web Steel Joists, K-Series (revision of ANSI/SJI K-1.0-2001)
- BSR/SJI LH/DLH-1.0-200x, Specification for Long span Steel Joists, LH-Series and Deep Longspan Steel Joists, DLH-Series (revision of ANSI/SJI LH/DLH-1.0-2001)

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 496-200x, Standard for Safety for Lampholders (revision of ANSI/UL 496-2002)

ANSI Technical Reports

ANSI Technical Reports are not consensus documents, but are informational in nature. These may include reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, relevant to DOE operations. Also such technical reports may contain the "state of the art" information in relation to standards of national or international bodies on a particular subject.

Comment Deadline: May 16, 2004

AMT (ASC B11) (Association for Manufacturing Technology)

BSR B11 TR1-200x, Ergonomic Guidelines for the Design, Installation and Use of Machine Tools (technical report)

2.1.1.3 Project Initiation Notification System (PINS)

Following is a list of proposed new American National Standards or revisions to existing American National Standards that have been received from ANSI accredited standards developers that utilize the periodic maintenance option in connection with their standards.

AIAA (American Institute of Aeronautics and Astronautics)

BSR/AIAA G-003B-200x, Guide to Standard and Reference Atmosphere Models (revision of ANSI/AIAA G-003A-1996)

ASC X9 (Accredited Standards Committee X9, Incorporated)

BSR X9.100-170-200x, Specifications for the Padlock Icon (revision and redesignation of ANSI X9.51-1998)

ATIS (Alliance for Telecommunications Industry Solutions)

BSR T1.261a-200x, Security for TMN Management Transactions over the TMN Q3 Interface (supplement to ANSI T1.261-1998)

AWS (American Welding Society)

BSR/AWS D3.7-200x, Guide for Aluminum Hull Welding (revision of ANSI/AWS D3.7-2004)

AWWA (American Water Works Association)

- BSR/AWWA FXXX-200x, Ozone Treatment of Water (new standard)

- BSR/AWWA FYYY-200x, Ultra-Violet Treatment of Water (new standard)

CSA (ASC Z21/83) (CSA America, Inc.)

BSR Z83.11b-200x, Gas Food Service Equipment (revision of ANSI Z83.11-2002/CSA 1.8-2002, ANSI Z83.11a-2004/CSA 1.8b-2004)

IEEE (Institute of Electrical and Electronics Engineers)

- BSR/IEEE 802.15.3b-200x, Amendment to Standard for Telecommunications and Information Exchange Between Systems- Local and Metropolitan Area Networks Specific Requirements - Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Amendment to MAC Sublayer (supplement to ANSI/IEEE 802.15.3-2003)
- BSR/IEEE 802.15.4a-200x, Amendment to Standard for Telecommunications and Information Exchange Between Systems- Local and Metropolitan Area Networks Specific Requirements - Part 15.4: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Alternate Physical Layer Extension for Low Rate Wireless Personal Area Networks (WPAN) (supplement to BSR/IEEE 802.15.4-200x)
- BSR/IEEE 802.15.4-200x, Standard for Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 15: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Low Rate Wireless Personal Area Networks (WPAN) (revision of ANSI/IEEE 802.15.4-2003)
- BSR/IEEE 802.15.5-200x, Recommended practices for mesh topology capability in Wireless Personal Area Networks (WPANs) (new standard)
- BSR/IEEE 802.16/Conformance04, Standard for Conformance to IEEE 802.16 - Part 4: Protocol Implementation Conformance Statement (PICS) Proforma for Frequencies below 11 GHz (new standard)
- BSR/IEEE 1484.11.3-200x, Standard for Learning Technology eXtensible Markup Language (XML) Schema Binding for Data Model for Content Object Communication (new standard)
- BSR/IEEE 1450.4-200x, Standard for Extensions to Standard Test Interface Language (STIL) (IEEE Std. 1450-1999) for Test Flow Specification (new standard)
- BSR/IEEE 1451.6-200x, Standard for a Smart Transducer Interface for Sensors and Actuators - A High-Speed CANopen-based Transducer Network Interface for Intrinsically Safe and Non-intrinsically Safe Applications (new standard)
- BSR/IEEE 485-200x, Recommended Practice for Sizing Lead-Acid Batteries for Stationary Applications (revision of ANSI/IEEE 485-1997)
- BSR/IEEE 820-200x, Standard Telephone Loop Performance Characteristics (revision of ANSI/IEEE 820-1984 (R1999))
- BSR/IEEE 1656-200x, Trial-Use Guide for Testing the Electrical, Mechanical, and Durability Performance of Wildlife Guards and Deterrents Used on Overhead Power Distribution Systems Rated up to 38 k.V (new standard)
- BSR/IEEE 1657-200x, Guide for Personnel Qualifications for Installation, Maintenance, and Operation of Stationary Batteries (new standard)
- BSR/IEEE C37.20.7-200x, Guide for Testing Metal-Enclosed Switchgear Rated 1kV through 38kV for Internal Arc Faults (revision of ANSI/IEEE C37.20.7-2001)
- BSR/IEEE C37.232-200x, Recommended Practice for

Naming Time Sequence Data Files (new standard)

- BSR/IEEE 1616a-200x, Standard for Motor Vehicle Event Data Recorders (MVEDRs)- Amendment 1: Brake and Electronic Control Unit (ECU) Electronic Fault Code Data Elements (supplement to BSR/IEEE 1616)

NEMA (ASC C78) (National Electrical Manufacturers Association)

BSR/IEC C78.62035-200x, Discharge Lamps (Excluding Fluorescent Lamps) - Safety Specifications (revision of ANSI/IEC C78.62035-2002)

UL (Underwriters Laboratories, Inc.)

- BSR/UL 2335-200x, Fire Tests of Storage Pallets (Standard dated 6/18/01) (new standard)
- BSR/UL 2221-200x, Standard for Fire Resistive Grease Duct Enclosure Assemblies (new standard)

2.1.2 International Standards

2.1.2.1 International Draft Standards

This section lists proposed standards that the International Organization for Standardization (ISO) - the International Organization for Standardization. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO members for comment and vote. Readers interested in reviewing and commenting on these documents should order copies from ANSI and provide comments by due date, following each listing.

ISO standards

Building Construction (TC 59)

ISO/DIS 15686-7, Buildings and constructed assets - Service life planning - Part 7: Performance evaluation for feedback of service life data from existing construction works - 7/8/2004

Ergonomics (TC 159)

ISO/DIS 13732-1, Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces - 7/10/2004

Machine Tools (TC 39)

- ISO/DIS 3070-1, Test conditions for boring and milling machines with horizontal spindle - Testing of accuracy - Part 1: Table-type machines - 7/10/2004
- ISO/DIS 3070-2, Test conditions for boring and milling machines with horizontal spindle - Testing of accuracy - Part 2: Floor-type machines with detached, stationary work-holding table - 7/10/2004
- ISO/DIS 3070-3, Test conditions for boring and milling machines with horizontal spindle - Testing of accuracy - Part 3: Planer-type machines with movable column - 7/10/2004

Nuclear Energy (TC 85)

ISO/DIS 9005, Nuclear energy - Uranium dioxide powder and sintered pellets - Determination of oxygen/uranium atomic ratio by the amperometric method - 7/8/2004

Pulleys and Belts (including Vee-Belts) (TC 41)

- ISO/DIS 21178, Light conveyor belts - Test methods for

Continued on next page

- Measurement of the electrical resistances - 7/9/2004
- ISO/DIS 21179, Light conveyor belts - Test method for the measurement of the electrostatic field generated by a running light conveyor belt - 7/9/2004

Refractories (TC 33)

ISO/DIS 5019-6, Refractory bricks - Dimensions - Part 6: Basic bricks for oxygen steel-making converters - 7/10/2004

Road Vehicles (TC 22)

- ISO/DIS 16232-1, Road vehicles - Cleanliness of components of fluid circuits- Part 1: Vocabulary- 7/10/2004
- ISO/DIS 16232-2, Road vehicles - Cleanliness of components of fluid circuits - Part 2: Method of extraction of contaminants by agitation - 7/10/2004
- ISO/DIS 16232-3, Road vehicles - Cleanliness of components of fluid circuits - Part 3: Method of extraction of contaminants by pressure rinsing - 7/10/2004
- ISO/DIS 16232-4, Road vehicles - Cleanliness of components of fluid circuits - Part 4: Method of extraction of contaminants by ultrasonic techniques - 7/10/2004
- ISO/DIS 16232-5, Road vehicles - Cleanliness of components of fluid circuits - Part 5: Method of extraction of contaminants on functional test bench - 7/10/2004
- ISO/DIS 16232-6, Road vehicles - Cleanliness of components of fluid circuits - Part 6: Gravimetric analysis - 7/10/2004
- ISO/DIS 16232-7, Road vehicles - Cleanliness of components of fluid circuits - Part 7: Particle sizing and counting by microscopic analysis - 7/10/2004
- ISO/DIS 16232-8, Road vehicles - Cleanliness of components of fluid circuits - Part 8: Determination of particle nature by microscopic analysis - 7/10/2004
- ISO/DIS 16232-9, Road vehicles - Cleanliness of components of fluid circuits - Part 9: Particle sizing and counting in liquid samples by automatic light extinction particle counter - 7/10/2004
- ISO/DIS 16232-10, Road vehicles - Cleanliness of components of fluid circuits - Part 10: Expression of results - 7/10/2004

Technical Drawings, Product Definition and Related Documentation (TC 10)

ISO/DIS 16792, Technical product documentation - Digital product definition data practices - 7/10/2004

IEC Standards

- 1/1932/FDIS, 60050-111 A1 Ed. 2: Amendment 1 to IEC 60050-111:1996, International Electrotechnical Vocabulary (IEV)- Part 111: Physics and chemistry- Time and related concepts, 06/04/2004
- 3C/1145/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs-5110A Pr: Stop, 06/04/2004
- 3C/1146/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5110B Pr: Stop, 06/04/2004
- 3C/1147/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5111A / 01: Pause; interruption, 06/04/2004

- 3C/1148/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5111B Pr: Pause; interruption, 06/04/2004
- 3C/1149/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5124A / 01: Slow run; slow speed, 06/04/2004
- 3C/1150/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5124B / 02: Slow run; slow speed, 06/04/2004
- 3C/1151/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5125A / 01: Recapitulate, 06/04/2004
- 3C/1152/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5861 Pr: Next; to play next part, 06/04/2004
- 3C/1153/FDIS, IEC 60417: Graphical symbols for audiovisual tapes and discs - 5862 Pr: Previous; to play previous part, 06/04/2004
- 49/665/FDIS, IEC 61337-2 Ed.1: Filters using waveguide type dielectric resonators - Part 2: Guide for use, 06/04/2004
- CIS/A/517/FDIS, Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power, 06/04/2004
- 34C/641/FDIS, IEC 60927 Am.2 Ed. 2: Auxiliaries for lamps - Starting devices (other than glow starters)- Performance requirements, 06/11/2004
- 47E/256/FDIS, IEC 60747-16-4, Ed.1: Discrete semiconductor devices - Part 16-4: Microwave integrated circuits - Switches, 06/11/2004
- 47E/257/FDIS, IEC 60747-16-10, Ed.1: Semiconductor devices - Part 16-10: Technology Approval Schedule (TAS) for monolithic microwave integrated circuits, 06/11/2004
- 65C/319A/FDIS, IEC 60488-1: IEEE Standard Digital Interface for Programmable Instrumentation. This document supersedes 65C/319/FDIS., 06/11/2004

2.1.2. 2 Newly Published ISO Standards

This section contains new and revised standards recently approved and promulgated by ISO. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from the ANSI Electronic Standards Store (ESS) or from www.ansi.org. All paper copies are available from Global Engineering Documents.

Cork (TC 87)

ISO 3813:2004, Resilient floor coverings - Cork floor tiles - Specification

Optics and Optical Instruments (TC 172)

ISO 15902:2004, Optics and optical instruments - Diffractive optics Vocabulary

Road Vehicles (TC 22)

ISO 7876-4:2004, Fuel injection equipment - Vocabulary - Part 4: High-pressure pipes and end-connections

Small Tools (TC 29)

ISO 11901-2:2004, Tools for pressing - Gas springs - Part 2: Specification of accessories

Steel (TC 17)

ISO 18286:2004, Hot-rolled stainless steel plates - Tolerances on dimensions and shape

Tractors and Machinery for Agriculture and Forestry (TC 23)

ISO 5692-1:2004, Agricultural vehicles - Mechanical connections on towed vehicles - Part 1: Dimensions for hitch rings

ISO/IEC JTC 1, Information Technology

ISO/IEC 10646:2004, Information technology - Universal Multiple-Octet Coded Character Set (UCS)

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 9573-11:2004, Information processing - SGML support facilities - Part 11: Structure descriptions and style specifications for standards document interchange

2.2 American Society of Mechanical Engineers (ASME)

The following listings are extracted from the ASME list of recently published standards on the ASME web site at <http://www.asme.org/codes/newdocuments.html> and are representative of NGS development activities that may be relevant to DOE operations. Refer to the ASME web site for the complete list of changes and new publications, standards developing organizations, and additional information about submitting comments.

2.2.1 ASME Standards in Coordination

The following ASME standards are currently in coordination. Comment due dates are noted after each listing.

- ANS: ASME A112.19.16 - 20XX, Terrazzo Fixture Requirements (new American National Standard), 06/15/04
- ANS: ASME A112.3.1 - 20XX, Stainless Steel Drainage Systems for Sanitary, Storm and Chemical Applications, Above and Below-Ground (revision to current American National Standard), 06/15/04
- ANS: ASME A112.4.14 - 20XX, Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems (new American National Standard), 05/04/04
- ANS: ASME A112.6.9 - 20XX, Standard for Siphonic Roof Drainage Systems (new American National Standard), 05/25/04
- ANS: ASME A17.2 - 20XX, Guide For Inspection of Elevators, Escalators, and Moving Walks (revision to current American National Standard), 05/31/04
- ANS: ASME B107.12 - 20XX, Nutdrivers (revision to current American National Standard), 06/08/04
- ANS: ASME B31.9 - 20XX, Building Services Piping (revision to current American National Standard), 05/04/04
- ANS: ASME PTC 6 - 20XX, STEAM TURBINES (revision to current American National Standard), 07/06/04
- ANS: ASME PTC 6.2 - 20XX, STEAM TURBINES IN COMBINED CYCLES (new American National Standard), 06/15/04
- ANS: ASME QAI-1 - 20XX, Qualifications For Authorized Inspection (revision to current American National Standard), 05/24/04
- ANS: ASME Y14.100 - 20XX, Engineering Drawing Practices (revision to current American National Standard), 06/15/04

2.2.2 New ASME Standards Published

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A17.1-2004: Safety Code for Elevators and Escalators
- A90.1-2003: Safety Standard for Belt Manlifts
- A112.6.4-2003: Roof, Deck, and Balcony Drains
- A112.18.6-2003: Flexible Water Connectors
- B107.37-2003: Pliers- Wire Cutters/Strippers
- OM-S/G-2003: Standards and Guides for Operation and Maintenance of Nuclear Power Plants
- PVHO-2-2003: Safety Standard for Pressure Vessels for Human Occupancy in-Service Guidelines for PVHO Acrylic Windows

Y14.5M-1994 and Y14.41-2003 Package Containing:

- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.41-2003 Digital Product Definition Data Practices

Y14.41 - 2003 Referenced Standards Package containing:

- Y14.1-1995 Decimal Inch Drawing Sheet Size and Format
- Y14.1M-1995 Metric Drawing Sheet Size and Format
- Y14.2M-1992 Line Conventions and Lettering
- Y14.3M-1994 Multiview and Sectional View Drawings
- Y14.4M-1989 Pictorial Drawing
- Y14.5M-1994 Dimensioning and Tolerancing
- Y14.8M-1996 Castings and Forgings
- Y14.35M-1997 Revision of Engineering Drawings and Associated Documents
- Y14.38-1999 Abbreviations and Acronyms
- Y14.100-2000 Engineering Drawing Practices

2.2.3 Revised ASME Standards Published

The following ASME standards were recently approved and published. Go to the ASME web site for information on ordering copies.

- A112.14.1-2003: Backwater Valves
- B1.10M-2004: Unified Miniature Screw Threads
- B16.5-2003: Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24
- B16.9-2003: Factory-Made Wrought Butt Welding Fittings
- B20.1-2003: Safety Standard for Conveyors and Related Equipment
- B30.9-2003: Slings
- B31.8-2003: Gas Transmission and Distribution Piping Systems
- B40.200a-2003: Addenda to ASME B40.200-201, Thermometers, Direct Reading and Remote Reading
- B89.1.6-2002: Measurement of Plain Internal Diameters for Use as Master Rings or Ring Gages
- MFC-1M-2003: Glossary of Terms Used in the Measurement of Fluid Flow in Pipes
- PTC 23-2003: Atmospheric Water Cooling Equipment
- QHO-1-2004: Standard for the Qualification and Certification of Hazardous Waste Incinerator Operators
- RA-Sa-2003: Addenda to ASME RA-S-2002, Standard for Probabilistic Risk Assessment for Nuclear Power Applications

- RTP-1c-2003: Addenda to ASME RTP-1-2000, Reinforced Thermoset Plastic Corrosion Resistant Equipment
- Y14.3-2003: Multiview and Sectional View Drawings

2.2.4 Other

The following Boiler Pressure Vessel Code (BPVC) supplements were recently issued.

- BPVC: Supplement No. 10 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC: Supplement No. 10 to the 2001 Edition of Code Cases, Nuclear Components
- BPVC: Supplement No. 11 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC: Supplement No. 11 to the 2001 Edition of Code Cases, Nuclear Components
- BPVC: Supplement No. 12 to the 2001 Edition of Code Cases, Boiler and Pressure Vessels
- BPVC: Supplement No. 12 to the 2001 Edition of Code Cases, Nuclear Components

2.3 ASTM

The following list of approved standards actions was extracted from the ASTM April Standards Actions, which can be found on the ASTM web site at http://www.astm.org/cgi-bin/SoftCart.exe/SNEWS/APRIL_2004/acta_apr04.html?L+mystore+adiy7841+1083270921. The list is representative of NGS development activities that may be relevant to DOE operations. Refer to the ASTM web site for the complete list of new publications.

2.3.1 ASTM A Standards

A01 on Steel, Stainless Steel and Related Alloys

New Standard

Volume 01.03, 2005A

1031-04, Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Alloy, Drawing Steel and Structural Steel, Hot-Rolled

Revision

Volume 01.01, 2003

A 249/A 249M-03a, Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes

Volume 01.01, 2004

- A 213/A 213M-03b, Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes
- A 213/A 213M-03c, Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes
- A 249/A 249M-03, Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes
- A 270-03a, Specification for Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing
- A 450/A 450M-03, Specification for General Requirements for Carbon, Ferritic Alloy, and Austenitic Alloy Steel Tubes
- A 694/A 694M-03, Specification for Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings, Valves, and Parts for High-Pressure Transmission Service

Volume 01.01, 2005

- A 105/A 105M-03, Specification for Carbon Steel Forgings for Piping Applications

- A 234/A 234M-03, Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service
- A 420/A 420M-03, Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-Temperature Service
- A 453/A 453M-03, Specification for High-Temperature Bolting Materials, with Expansion Coefficients Comparable to Austenitic Stainless Steels
- A 1014-03, Specification for Precipitation-Hardening Bolting Material UNS N07718 for High Temperature Service **Volume 01.03, 2005**
- A 240/A 240M-04, Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- A 480/A 480M-03c, Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
- A 1008/A 1008M-04, Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability

A04 on Iron Castings

Revision

Volume 01.02, 2003

- A 48/A 48M-03, Specification for Gray Iron Castings
- A 888-04, Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
- A 897/A 897M-03, Specification for Austempered Ductile Iron Castings

Volume 01.02, 2005

A 74-04, Specification for Cast Iron Soil Pipe and Fittings

A05 on Metallic-Coated Iron and Steel Products

Revision

Volume 01.06, 2003

- A 363-03, Specification for Zinc-Coated Galvanized Steel Overhead Ground Wire Strand
- A 411-03, Specification for Zinc-Coated Galvanized Low-Carbon Steel Armor Wire
- A 474-03, Specification for Aluminum-Coated Steel Wire Strand
- A 475-03, Specification for Zinc-Coated Steel Wire Strand
- A 641/A 641M-03, Specification for Zinc-Coated Galvanized Carbon Steel wire
- A 755/A 755M-03, Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Prepainted by the Coil-Coating Process for Exterior Exposed Building Products
- A 809-03, Specification for Aluminum-Coated Aluminized Carbon Steel Wire
- A 855/A 855M-03, Specification for Zinc-5 Aluminum-Mischmetal Alloy-Coated Steel Wire Strand
- A 856/A 856M-03, Specification for Zinc-5 Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire
- A 925-03, Specification for Zinc-5 Aluminum-Mischmetal Alloy-Coated Steel Overhead Ground Wire Strand

Volume 01.06, 2004

A 964-03, Specification for Corrugated Steel Box Culverts

2.3.2 ASTM B Standards

Revision

Volume 02.04, 2004

- B 166-04, Specification for Nickel-Chromium-Iron Alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, and N06045) and Nickel-Chromium-Cobalt-Molybdenum Alloy (UNS N06617) Rod, Bar, and Wire
- B 366-04, Specification for Factory-Made Wrought Nickel and Nickel Alloy Fittings
- B 463-04, Specification for UNS N08020, UNS N08026, and UNS N08024 Alloy Plate, Sheet, and Strip
- B 464-04, Specification for Welded UNS N08020, N08024, and N08026 Alloy Pipe
- B 468-04, Specification for Welded UNS N08020, N08024, and N08026 Alloy Tubes
- B 512-04, Specification for Nickel-Chromium-Silicon Alloy (UNS N08330) Billets and Bars
- B 535-04, Specification for Nickel-Iron-Chromium-Silicon Alloys (UNS N08330 and N08332) Seamless Pipe and Tube
- B 546-04, Specification for Electric Fusion-Welded Ni-Cr-Co-Mo Alloy (UNS N06617), Ni-Fe-Cr-Si Alloys (UNS N08330 and UNS N08332), Ni-Cr-Fe-Al Alloy (UNS N06603), Ni-Cr-Fe Alloy (UNS N06025), and Ni-Cr-Fe-Si Alloy (UNS N06045) Pipe
- B 625-04, Specification for UNS N08904, UNS N08925, UNS N08031, UNS N08932, UNS N08926, and UNS R20033 Plate, Sheet, and Strip
- B 677-04, Specification for UNS N08904, UNS N08925, and UNS N08926 Seamless Pipe and Tube
- B 710-04, Specification for Nickel-Iron-Chromium-Silicon Alloy Welded Pipe
- B 865-04, Specification for Precipitation Hardening Nickel-Copper-Aluminum Alloy (UNS N05500) Bar, Rod, Wire, Forgings, and Forging Stock

2.3.3 ASTM C Standards

C01 on Cement

Revision

Volume 04.01, 2004

- C 191-04, Test Method for Time of Setting of Hydraulic Cement by Vicat Needle
- C 1329-04, Specification for Mortar Cement

C08 on Refractories

Revision

Volume 15.01, 2003

C 181-03, Test Method for Workability Index of Fireclay and High-Alumina Plastic Refractories

C09 on Concrete and Concrete Aggregates

Revision

Volume 04.02, 2003

- C 672/C 672M-03, Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals
- C 1017/C 1017M-03, Specification for Chemical Admixtures for Use in Producing Flowing Concrete

Volume 04.02, 2004

- C 40-04, Test Method for Organic Impurities in Fine Aggregates for Concrete
- C 330-04, Specification for Lightweight Aggregates for Structural Concrete

- C 331-04, Specification for Lightweight Aggregates for Concrete Masonry Units
- C 341/C 341M-03a, Practice for Length Change of Cast, Drilled, or Sawed Specimens of Hydraulic Cement Mortar and Concrete
- C 989-04, Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars
- C 1152/C 1152M-03, Test Method for Acid-Soluble Chloride in Mortar and Concrete

Volume 04.01, 2004

- C 79/C 79M-04, Specification for Treated Core and Nontreated Core Gypsum Sheathing Board
- C 442/C 442M-04, Specification for Gypsum Backing Board, Gypsum Coreboard, and Gypsum Shaftliner Board
- C 931/C 931M-04, Specification for Exterior Gypsum Soffit Board
- C 960/C 960M-04, Specification for Predecorated Gypsum Board C 1177/C 1177M-04, Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- C 1178/C 1178M-04, Specification for Glass Mat Water-Resistant Gypsum Backing Panel
- C 1395/C 1395M-04, Specification for Gypsum Ceiling Board
- C12 on Mortars and Grouts for Unit Masonry

Volume 04.05, 2003

C 270-03b, Specification for Mortar for Unit Masonry

New Standard

Volume 04.05, 2004

C 1586-04, Guide for Quality Assurance of Mortars

C13 on Concrete Pipe

New Standard

Volume 04.05, 2004

C 1478M-03, Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes, and Laterals [Metric]

Revision

Volume 04.05, 2003

- C 443-03, Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
- C 443M-03, Specification for Joints for Concrete Pipe, Using Rubber Gaskets [Metric]
- C 497M-03a, Test Methods for Concrete Pipe, Manhole Sections, or Tile Metric
- C 497M-03b, Test Methods for Concrete Pipe, Manhole Sections, or Tile Metric
- C 822-03, Terminology Relating to Concrete Pipe and Related Products
- C 1103-03, Practice for Joint Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines
- C 1103M-03, Practice for Joint Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines Metric

Volume 04.05, 2004

- C 478-03a, Specification for Precast Reinforced Concrete Manhole Sections
- C 478M-03a, Specification for Precast Reinforced Concrete Manhole Sections Metric
- C 990-03a, Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
- C 990M-03a, Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants Metric

Continued on next page

C15 on Manufactured Masonry Units

Revision

Volume 04.05, 2004

- C 34-03, Specification for Structural Clay Load-Bearing Wall Tile
- C 1420-03a, Practice for Selection, Removal, and Shipment of Manufactured Masonry Units Placed in Usage
- C 1532-03a (Includes change to title), Practice for Selection, Removal, and Shipment of Masonry Assemblage Specimens from Existing Construction
- C 1552-03a, Practice for Capping Concrete Masonry Units, Related Units and Masonry Prisms for Compression Testing

Volume 04.05, 2004

- C 43-03a, Terminology of Structural Clay Products
- C 62-04, Specification for Building Brick Solid Masonry Units Made from Clay or Shale
- C 652-04, Specification for Hollow Brick Hollow Masonry Units Made from Clay or Shale
- C 902-04, Specification for Pedestrian and Light Traffic Paving Brick
- C 1088-04, Specification for Thin Veneer Brick Units Made from Clay or Shale
- C 1314-03b, Test Method for Compressive Strength of Masonry Prisms

C16 on Thermal Insulation

Revision

Volume 04.06, 2004

- C 335-03a, Test Method for Steady-State Heat Transfer Properties of Horizontal Pipe Insulation
- C 680-03a (Includes change to title), Practice for Estimate of the Heat Gain or Loss and the Surface Temperatures of Insulated Flat, Cylindrical, and Spherical Systems by Use of Computer Programs

C18 on Dimension Stone

Revision

Volume 04.07, 2004

- C 629-03, Specification for Slate Dimension Stone

C24 on Building Seals and Sealants

Revision

Volume 04.07, 2003

- C 1536-03, Test Method for Measuring the Yield for Aerosol Foam Sealants

Volume 04.07, 2004

- C 564-03a, Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- C 1442-03, Practice for Conducting Tests on Sealants Using Artificial Weathering Apparatus

C28 on Advanced Ceramics

Revision

Volume 15.01, 2004

- C 1326-03, Test Method for Knoop Indentation Hardness of Advanced Ceramics

2.3.4 ASTM D Standards

D01 on Paint and Related Coatings, Materials, and Applications

New Standard

Volume 06.02, 2005

- D 6943-03, Practice for Immersion Testing of Industrial

Protective Coatings

- D 6990-03, Practice for Evaluating Biofouling Resistance and Physical Performance of Marine Coating Systems

Revision

Volume 06.01, 2005

- D 2697-03, Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings
- D 4827-03, Test Method for Determining the Unreacted Monomer Content of Latexes Using Capillary Column Gas Chromatography
- D 4834-03, Test Method for Detection of Lead in Paint by Direct Aspiration Atomic Absorption Spectroscopy

Volume 06.02, 2005

- D 2066-03, Test Methods for Relative Tinting Strength of Paste-Type Printing Ink Dispersions
- D 5324-03, Guide for Testing Water-Borne Architectural Coatings

D04 on Road and Paving Materials

Revision

Volume 04.03, 2003

- D 4695-03, Guide for General Pavement Deflection Measurements
- D 5106-03, Specification for Steel Slag Aggregates for Bituminous Paving Mixtures
- D 5340-03, Test Method for Airport Pavement Condition Index Surveys
- D 5710-03, Specification for Trinidad Lake Modified Asphalt
- D 6433-03, Practice for Roads and Parking Lots Pavement Condition Index Surveys
- D 6521-03, Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (Pav)
- D 6521-03a, Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (Pav)

Volume 04.03, 2004

- D 693-03a, Specification for Crushed Aggregate for Macadam Pavements
- D 1752-04 (Includes change to title), Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction

D05 on Coal and Coke

Revision

Volume 05.06, 2003

- D 2013-03, Practice for Preparing Coal Samples for Analysis
- D 6518-03a, Practice for Bias Testing a Mechanical Coal Sampling System

D08 on Roofing and Waterproofing

Revision

Volume 04.04, 2004

- D 146-03, Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Water-proofing
- D 227-03, Specification for Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing
- D 1327-04, Specification for Bitumen-Saturated Woven Burlap Fabrics Used in Roofing and Waterproofing
- D 1863-03, Specification for Mineral Aggregate Used on Built-Up Roofs

Continued on next page

- D 2824-04, Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, Asbestos Fibered, and Fibered Without Asbestos
- D 3462-03a, Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules
- D 3791-04, Practice for Evaluating the Effects of Heat on Asphalts
- D 4811-04, Specification for Nonvulcanized Uncured Rubber Sheet Used as Roof Flashing
- D 4977-03, Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion
- D 5635-04, Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens

D09 on Electrical and Electronic Insulating Materials

Revision

Volume 10.01, 2003

D 784-03, Specification for Orange Shellac and Other Indian Lacs for Electrical Insulation

Volume 10.02, 2003

- D 3145-03, Test Method for Thermal Endurance of Electrical Insulating Varnishes by the Helical Coil Method
- D 5537-03, Test Method for Heat Release, Flame Spread, Smoke Obscuration, and Mass Loss Testing of Insulating Materials Contained in Electrical or Optical Fiber Cables When Burning in a Vertical Cable Tray

D11 on Rubber

Revision

Volume 09.01, 2003

D 3767-03, Practice for Rubber —Measurement of Dimensions

Volume 09.01, 2004

- D 1566-04, Terminology Relating to Rubber
- D 1646-04, Test Methods for Rubber-Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)

Volume 09.02, 2003

D 2000-03a, Classification System for Rubber Products in Automotive Applications

D18 on Soil and Rock

New Standard

Volume 04.09, 2003

D 6939-03, Practice for Brushmattressing

Revision

Volume 04.08, 2003

D 2435-03, Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading

Volume 04.08, 2004

D 653-03, Terminology Relating to Soil, Rock, and Contained Fluids

D19 on Water

Revision

Volume 11.02, 2003

D 4520-03, Practice for Determining Water Injectivity Through the Use of On-Site Floods

D35 on Geosynthetics

New Standard

Volume 04.13, 2004

- D 7003-03, Test Method for Strip Tensile Properties of Reinforced Geomembranes
- D 7004-03, Test Method for Grab Tensile Properties of Reinforced Geomembranes

2.3.5 ASTM E Standards

E06 on Performance of Buildings

New Standard

Volume 04.11, 2003

E 2267-03, Guide for Specifying and Evaluating Performance of Single Family Attached and Detached Dwellings — Indoor Air Quality

Volume 04.12, 2004

E 2342-03, Test Method for Durability Testing of Duct Sealants

Revision

Volume 04.11, 2003

E 1605-03, Terminology Relating to Lead in Buildings

Volume 04.11, 2004

- E 1190, Test Methods for Strength of Power-Actuated Fasteners Installed in Structural Members
- E 1554-03, Test Methods for Determining External Air Leakage of Air Distribution Systems by Fan Pressurization

Volume 04.12, 2003

E 2110-03, Terminology for Exterior Insulation and Finish Systems EIFS

E07 on Nondestructive Testing

New Standard

Volume 03.03, 2004

- E 2337-04, Guide for Mutual Inductance Bridge Applications for Wall Thickness Determinations in Boiler Tubing
- E 2338-04, Practice for Characterization of Coatings Using Conformable Eddy-Current Sensors Without Coating Reference Standards

Revision

Volume 03.03, 2003

- E 213-04, Practice for Ultrasonic Examination of Metal Pipe and Tubing
- E 1165-04, Test Method for Measurement of Focal Spots of Industrial X-Ray Tubes by Pinhole Imaging

Volume 03.03, 2004

- E 747-04, Practice for Design, Manufacture and Material Grouping Classification of Wire Image Quality Indicators (Iqi) Used for Radiology
- E 1001-04, Practice for Detection and Evaluation of Discontinuities by the Immersed Pulse-Echo Ultrasonic Method Using Longitudinal Waves

E12 on Color and Appearance

Revision

Volume 06.01, 2005

- E 1455-03, Practice for Obtaining Colorimetric Data from a Visual Display Unit Using Tristimulus Colorimeters
- E 2302-03a (Includes change to title), Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer

Continued on next page

E20 on Temperature Measurement

Revision

Volume 14.03, 2004

E 235-03, Specification for Thermocouples, Sheathed, Type K and Type N, for Nuclear or for Other High-Reliability Applications

E27 on Hazard Potential of Chemicals

Revision

Volume 14.02, 2003

E 2019-03, Test Method for Minimum Ignition Energy of a Dust Cloud in Air

Volume 14.02, 2004

E 1515-03a, Test Method for Minimum Explosible Concentration of Combustible Dusts

E30 on Forensic Sciences

Revision

Volume 14.02, 2004

E 2292-03, Practice for Investigating Carbon Monoxide Poisoning Incidents

E37 on Thermal Measurements

Revision

Volume 14.02, 2000

E 928-03 (Includes change to title), Test Method for Purity by Differential Scanning Calorimetry

E42 on Surface Analysis

Revision

Volume 03.06, 2004

E 673-03, Terminology Relating to Surface Analysis

2.3.6 ASTM F Standards

F01 on Electronics

Revision

Volume 10.04, 2004

F 1-03, Specification for Nickel-Clad and Nickel-Plated Steel Strip for Electron Tubes

F05 on Business Imaging Products

Revision

Volume 15.09, 2004

F 1946-04, Practice for Accelerated Testing of the Lightfastness of Ink Jet Prints Exposed to Indoor Fluorescent Lighting and Window N -filtered Daylight

F16 on Fasteners

Revision

Volume 01.08, 2005

- A 325-04, Specification for Structural Bolts, Steel, Heat Treated, 120/105 Ksi Minimum Tensile Strength
- A 325M-04, Specification for Structural Bolts, Steel, Heat Treated 830 Mpa Minimum Tensile Strength [Metric]
- A 449-04, Specification for Quenched and Tempered Steel Bolts and Studs
- A 490-04, Specification for Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength

- A 490M-04, Specification for High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints [Metric]
- A 563-04, Specification for Carbon and Alloy Steel Nuts
- F 1852-04, Specification for "Twist Off " Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength

F17 on Plastic Piping Systems

Revision

Volume 08.04, 2004

- D 2241-04, Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe Sdr Series
- D 2513-04, Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings
- F 905-03 (Includes change to title), Practice for Qualification of Polyethylene Saddle-Fused Joints
- F 1335-04, Specification for Pressure-Rated Composite Pipe and Fittings for Elevated Temperature Service

Volume 08.04, 2005

D 3035-03a, Specification for Polyethylene (PE) Plastic Pipe Dr-Pr Based on Controlled Outside Diameter

F18 on Electrical Protective Equipment for Workers

New Standard

Volume 10.03, 2004

F 2320-03, Specification for Rubber Insulating Sheet

Revision

Volume 10.03, 2004

F 855-03, Specifications for Temporary Protective Grounds to Be Used on De-Energized Electric Power Lines and Equipment

F34 on Rolling Element Bearings

Revision

Volume 01.08, 2005

F 2094-03a, Specification for Silicon Nitride Bearing Balls

2.3.7 ASTM G Standards

G01 on Corrosion of Metals

Revision

Volume 03.02, 2004

G 15-04, Terminology Relating to Corrosion and Corrosion Testing

G02 on Wear and Erosion

Revision

Volume 03.02, 2004

- G 76-04, Test Method for Conducting Erosion Tests by Solid Particle Impingement Using Gas Jets
- G 99-04, Test Method for Wear Testing with a Pin-on-Disk Apparatus

G03 on Weathering and Durability

New Standard

Volume 14.04, 2004

- G 177-03, Tables for Reference Solar Ultraviolet Spectral Distributions: Hemispherical on 37 Degree Tilted Surface
- G 179-04, Specification for Metal Black Panel and White Panel Temperature Devices for Natural Weathering Tests

G04 on Compatibility and Sensitivity of Materials in Oxygen Enriched Atmospheres

Revision

Volume 14.04, 2000

G 136-03, Practice for Determination of Soluble Residual Contaminants in Materials by Ultrasonic Extraction

2.4 American Nuclear Society (ANS)

The following list of approved standards actions was extracted from the ANS list of "What's New" in Standards.

The complete list can be found at

<http://www.ans.org/standards/new/>. The list is representative of NGS development activities that may be relevant to DOE operations.

2.4.1 ANS Project Initiations

- BSR/ANS-10.4-200x, Standard for the Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry (revision of ANS-10.4-1987)
- BSR/ANS-51.1-200x, Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants (revision of ANSI/ANS-51.1-1983; R1986; R1988)
- BSR/ANS-52.1-200x, Nuclear Safety Criteria for the Design of Stationary Boiling Water Reactor Plants (revision of ANSI/ANS-52.1-1983; R1988)
- BSR/ANS-58.3-200x, Physical Protection for Nuclear Safety Related Systems and Components (revision of ANSI/ANS-58.3-1992; R1998)
- BSR/ANS-58.23-200x, Standard on Methodology for Fire PRA (new standard)

2.4.2 ANS Standards Approved

- ANSI/ANS-2.2-2002, Earthquake Instrumentation Criteria for Nuclear Power Plants (revision of ANSI/ANS-2.2-1988) - Newly Published
- ANSI/ANS-2.10-2003, Criteria for the Handling and Initial Evaluation of Records from Nuclear Power Plant Seismic Instrumentation - Published in mid-2003
- ANSI/ANS-2.23-2002, Nuclear Plant Response to an Earthquake (new standard) - Newly Published
- ANSI/ANS-8.3-1997; R2002, Criticality Accident Alarm System (reaffirmation of ANSI/ANS-8.3-1997) - Approved 6/12/2003
- ANSI/ANS-19.1-2002, Nuclear Data Sets for Reactor Design Calculations (revision of ANSI/ANS-19.1-1983; R1989) - Published in mid-2003
- ANSI/ANS-19.3.4-2002, The Determination of Thermal Energy Deposition Rates in Nuclear Reactors (revision of ANSI/ANS-19.3.4-1976; R1983; R1989) - Published in mid-2003
- ANSI/ANS-56.8-2002, Containment System Leakage Testing Requirements (revision of ANSI/ANS-56.8-1994) - Newly Published
- ANSI/ANS-58.21, External Events in PRA Methodology (new standard) - Approved 3/3/2003

2.5 National Fire Protection Association (NFPA)

The following list of approved standards actions was extracted from the NFPA News Journal at

<http://www.nfpa.org/NFPAJournal/index.asp>. The list is

representative of NGS development activities that may be relevant to DOE operations. See the web site for a complete list of standards actions as well as the calls for committee members and list of committees soliciting proposals.

NFPA Standards for Comment

The following Tentative Interim Amendments (TIAs) have been proposed to the NFPA. They are being published for public review. Comment due date follows each entry.

- NFPA 13-2002, Standard for the Installation of Sprinkler Systems, TIA Log No. 795- 05/21/04
- NFPA 30-2003, Flammable and Combustible Liquids Code, TIA Log No. 793- 05/21/04
- NFPA 96- 2004, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, TIA Log No. 791- 05/21/04
- NFPA 409-2001 and the Proposed 2004 edition, Standard on Aircraft Hangars, TIA Log No. 792- 05/21/04
- NFPA 1221-2002, Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems, TIA Log No. 796- 05/21/04



Standards Actions

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